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## EDITED TRANSLATION

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13 September 1978

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HEXAGON SLOTTED AND CASTLE NUTS (HIGH PRECISION) DIMENSIONS

English pages: 4

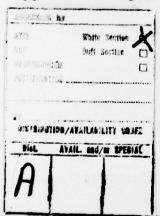
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Country of Origin: USSR

Translated by: Robert D. Hill

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U. S. BOARD ON GEOGRAPHIC NAMES TRANSLITERATION SYSTEM

Block	Italic	Transliteration	Block	Italic	Transliteration
Аа	A a	A, a	Рр	PP	R, r
Б б	Б б	B, b	Сс	Cc	S, s
Вв	B .	V, V	Тт	T m	T, t
Гг	Γ:	G, g	Уу	Уу	U, u
Дд	Дд	D, d	ФФ	Ø Ø	F, f
Еe	E .	Ye, ye; E, e∗	X ×	X x	Kh, kh
жж	XX xx	Zh, zh	Цц	4	Ts, ts
3 3	3 1	Z, z	44	4 4	Ch, ch
Ии	Ии	I, i	Шш	Шш	Sh, sh
Йй	A a	Y, y	Щщ	Щщ	Shch, shch
Н н	KK	K, k	Ъъ	3 1	11
ת וג	ЛА	L, 1	Н ы	M W	У, у
Pi iri	M M	M, m	ьь	ь.	•
Н н	H N	N, n	Зэ	9 ,	Е, е
0 0	0 0	0, 0	Юю	10 no	Yu, yu
Пп	17 n	P, p	Яя	Яя	Ya, ya

<sup>\*</sup>ye initially, after vowels, and after ь, ь; e elsewhere. When written as  $\ddot{e}$  in Russian, transliterate as  $y\ddot{e}$  or  $\ddot{e}$ .

### RUSSIAN AND ENGLISH TRIGONOMETRIC FUNCTIONS

Russian	English	Russian	English	Russian	English
sin	sin	sh	sinh	arc sh	sinh-1
cos	cos	ch	cosh	arc ch	cosh 1
tg	tan	th	tanh	arc th	tanh
ctg	cot	cth	coth	arc cth	coth_1
sec	sec	sch	sech	arc sch	sech_1
cosec	csc	csch	csch	arc csch	csch

Russian	English
rot	curl
1g	log

GOST 5932-62\*

instead of GOST 5932-51 and GOST 5934-51

# HEXAGON SLOTTED AND CASTLE NUTS (HIGH PRECISION) DIMENSIONS

Confirmed by the Committee of Standards, Measures and Measuring Instruments attached to the Council of Ministers of the USSR, March 27, 1962. The period of the introduction is established from January 1, 1964.

Non-observance of the standard is punishable by law

1. Dimensions of the nuts must correspond to those indicated on the drawing and in the table of the present standard.

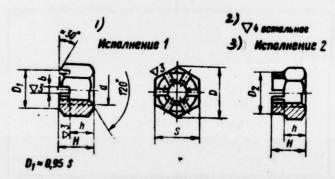


Figure: KEY: 1) Design 1; 2) Remaining; 3) Design 2.

Examples of symbols of the nut with diameter of the thread d = 12 mm, grade of strength 5, design 1, with a thread pitch of grade of fit 3, without coating:

Nut M12.5 GOST 5932-62

<sup>\*</sup>Republication (Dec. 1971) with change No. 2 accepted in Aug. 1971.

The same in design 2, with a small thread pitch of grade of fit of 2a, with coating 01, with a thickness of 9  $\mu m$ :

Nut 2M12X1.25.2a.5.019 GOST 5932-62

(Modified editing - "Information index of standards," No. 8, 1971).

- 2. Threads in compliance with GOST 9150-59.
- 3. Tolerances of threads in compliance with GOST 9253-59\*: for threads with large pitches of the grade of fit 2 or 3, with small pitches 2a or 3.
- 4. In the selection of pitches of threads, the large pitches should be preferred to the small ones, and the grade of fit of the thread 3 to grades of fit 2 and 2a.
- Specifications in compliance with GOST 1759-70.
   (Modified editing "Information index of standards," No. 8,
   1971.

### Replacement

GOST 1759-70 is introduced instead of GOST 1759-62.

<sup>\*</sup>GOST 1759-62 has been introduced since January 1, 1974.

-	•	١	
1	А	,	
		ø.	
			•

						M.M												
2} Поминальные диаметры	резьбы в	4	5	6	•	10	12	(14)	16	(IA)	20	(22)	24	(27)	730	36	42	44
Har pesi-6u	4kpynnan	0,7	0,8	1	1,25	1,5	1.75	2	2	2.5	2,5	2.5	3	3	3,5	4	4,5	5
	5 мелкия	-	-	-	1	1.25	1.25	1,5	1,5	1,5	1,5	1.5	2	2	2	3	3	3
Размер «под ключ» S	7)HOMHH	7	8	10	14	17	19	22	24	27	30	32	36	41	46	55	65	75
Luameh aud wands a	<b>8)</b> Доп. откл.		-0.20			0,24			-0,28				, -0,	34			-0,40	
Rucora H	7Номин.	6	6	7.8	9	11	14	16	19	20	22	25	26	28	32	38	41	50
/ Mucora n	8)доп откл	-	0,48	-	0.58		-0,70				-0	0.84				-1.	00 .	
Лиаметр описанной ок-	7) HOMHH.	8,1	9.2	11.5	16,2	19,6	21,9	25.4	27,7	31,2	34,6	35,9	41.6	47,3	53,1	63,5	75.0	86,5
ружности D	<b>8)</b> Доп. откл.	-0,3	0.4	0,5	-0,7	-	0,8	-	0,9	-	1,0	-1,1	-	1,8	-1,4	-1,7	-1,8	-1.
Учисло прорезей										6								
)	7)Hommu.	1,2	1,4	2	2.5	2,8		4		8			6			8		10
Ширина прорези в	7)Доп. откл.		+0	25 08						+0,						+0 -0		
	7)Homen	3,2	14	8	6	8	10	111	13	14	16	18	19	22	24 )	28	32	36
поверяюсти до основания прорези и коронки й	8) Доп. откл.		-0,	30		-	0,36			-0.4	3			-	-0,52		-	0.62
Ý	7 tomm.						17	20	22	25	28	30	34	36	12	50	58	68
Диаметр коронки D <sub>2</sub> 3	<i>8)</i> Доп. откл.			_			-0,43	1		-0,52				-0	,62		-	0.74
Допускаемое смещение ос	и прорези	0	,15		0,20	)	0.	25		0,30	)			0,45			_	0,50
Допускаемое смещение рск	отверстия		0,25		0.30		0.4			0,5	)			0,60			1	0,70
7 Pasmen mnanuta (peno-	всполнение /	Ix	2 1.2× 2 × 12	1.6; ×10	2×20	12.5×	3	.2× ×32	4×3	6 4	× 40	5				6,3×  ×70		
MEHAYEMMA) AAR FACE	исполнения 2	1					1	,2×25		. 1 .	×36	1 -	x 40	5×45	16.3×	16.3 ×		

KEY to Table: 1) mm; 2) Pitch of thread; 4) large; 5) small;

6) Dimension "for wrench" S; 7) Rated; 8) Tolerances; 9) Height H; 10) Diameter of described circumference D; 11) Number of slots; 12) Width of slot b; 13) Distance from reference surface to base of slot and crown h; 14) Diameter of crown D<sub>2</sub>; 15) Permissible shift in axis of slot; 16) Permissible shift in axis of hole; 17) Dimension of split pin (recommended) for the nuts; 18) Note: As far as possible, do not use dimensions of the nuts included in parentheses.

Reference Table of Weight of Nuts (Design 1)

1) Номинальные диаметры резьбы и в ма	2) Масса 1000 шт. стальных гаек с крупным шагом резьбы в кг «	1) Номинальные лиметры резьбы д в мя	2) -Масса 1000 штствяьных гаек с крупным шагем резьбы в из м
4	1,100	20	81,26
5	1,667	20 22 24 27	98,34
6	3,223	24	137,00
8	7.909	27	206,20
10	14,660	30 36 42	284,20
12	21,450	36	483,70
14	32,850	42	782.30
16	43,100	48	1215,00
18	59,180		
			F-A

KEY: 1) Rated diameters of thread d in mm; 2) Weight of 1000 pieces of steel nuts with large thread pitch in kg  $\sim$ .

Reference Table of Weight of Nuts (Design 2)

<i>y</i>	Номинальные ливметры резьбы д в мм	2) Масса 1000 шт. стадыных гаек с крупным шагом резьбы в кга	1) Номинадъиме диаметры разъбы в д мм	2) Масса 1000 шт. стальных гаск с иружным шагом резьбы в ка-
	12	18,80	24	125,3
	14	25,74	27	191,2 255,8 432,4
	16	37,60	30	255.8
	18	52,60	36	432.4
	20	73,65	42	687.0
	22	88,49	48	1070.0

KEY: 1) Rated diameters of thread d in mm; 2) Weight of 1000 pieces of steel nuts with large thread pitch in kg ~.

To determine the weight of the nuts from other materials, the values of the weight indicated in the table should be multiplied by the factors:

0.356 - for aluminum alloy;

1.080 - for brass.

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CO43 USAMIIA	1	E404 AEDC	
C509 BALLISTIC RES LABS	1	E408 AFWL	1
C510 AIR MOBILITY R&D	1	E410 ADTC	ī
LAB/FIO		E413 ESD	2
C513 PICATINNY ARSENAL	1	FTD	
C535 AVIATION SYS COMD	1	CC	N 1
C591 FSTC	5	AS	D/FTD/NIIS 3
C619 MIA REDSTONE	1		A/PHS 1
D008 NISC	1	NI	IS 2
H300 USAICE (USAREUR)	1		
POOS DOE	1		
P050 CIA/CRS/ADD/SD	1		
NAVORDSTA (50L)	1		
NASA/KSI	1		
AFIT/LD	1		